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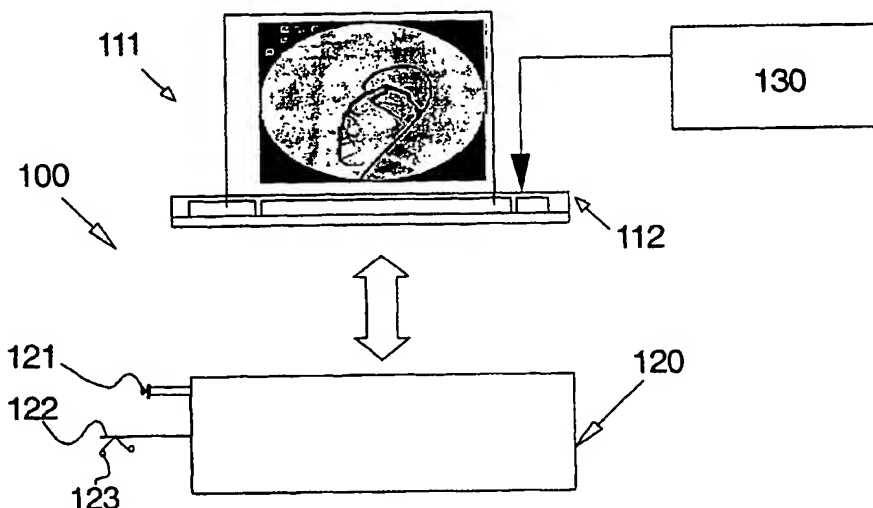
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- (71) Applicant (*for all designated States except US*): MENTICE AB [SE/SE]; Kasernorget 6, S-411 18 Göteborg (SE).
- (72) Inventor; and
- (75) Inventor/Applicant (*for US only*): GRUND-PEDERSEN, Jan [SE/SE]; Hagenvägen 1740, S-429 35 Kullavik (SE).
- (74) Agent: STRÖM & GULLIKSSON IP AB; Sjöporten 4, S-417 64 Göteborg (SE).
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(54) Title: AN INTERVENTIONAL SIMULATOR SYSTEM



(57) Abstract: The present invention relates to an interventional procedure simulation system and method, comprising a control unit and an interface unit, said control unit communicating with said interface unit to simulate handling of at least one instrument interfaced by said interface unit. The control unit comprises a database of vessels having hierarchy structure, each vessel having a diameter and a stiffness, and said instrument being a tool expandable in a simulated vessel. When the tool is expanded, a geometry of said vessel changes resulting in a fluid flow change.

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